## **AMENDMENTS TO THE CLAIMS**

Please amend Claims 1-16 as shown below. This listing of claims will replace all prior versions, and listings, of claims in the international application.

- 1. (currently amended) Method for operating a dynamic range power control of an audio signal, with an adaptive threshold, wherein said dynamic range control comprises an audio signal input, an audio signal output and a power control comprising:
- receiving at least two thresholds comprising a maximum power level for short time interval operation and a maximum power level for long time operation of an electro acoustic transducer,
- detecting the power of the audio signal input continuously,
- short term controlling the power of the audio signal output wherein in a way that the power of the output is reduced to said maximum power level for short time operation, if the detected power of said audio signal input exceeds said maximum power level for short time interval operation, and
- long term controlling the power of the audio signal output wherein in a way that the power of the output signal is reduced to said maximum power level for long time operation, if the detected power of said audio signal input is exceeding said maximum power level for long time operation, for a predetermined time period, wherein said long term control overrides said short term control.
- 2. (currently amended) Method according to claim 1, characterized in that the wherein a speed said long term controlling of the power of the signal is performed depending from the difference power between said detected input signal and said maximum power level for long time operation.
- 3. (currently amended) Method according to <u>claim 1</u>, <u>wherein</u> any of the preceding <del>claims, characterized in that</del> said thresholds are received from said electro acoustic transducer.

- 4. (currently amended) Method according to <u>claim 1</u>, <u>wherein any of the preceding</u> elaims, characterized in that said long term control comprises a smooth reduction of said output power level.
- 5. (currently amended) Method according to claim 1, wherein any of the preceding elaims, characterized in that said long term control comprises a time interval controlled smooth reduction of said output power level.
- 6. (currently amended) Method according to claim 1, wherein any of the preceding claims, characterized in that said short term control comprises an immediate reduction of said output power level.
- 7. (currently amended) Method according to claim 1 any of the preceding claims, wherein said power control comprises a digital power control having a digital control range and an analog power control having an analog power control range, whereineharacterized in that said signal volume is controlled analogously at signal levels lower than the control range of said analog control, and in that said signal power is controlled digitally at signal levels higher than the control range of said digital control, and wherein the power control ranges of said analog and digital controls are not overlapping.
- 8. (currently amended) Computer program product comprising program code means stored on a computer readable medium for carrying out the method of <u>claim 1 anyone</u> of claims 1 to 7, when said program product is run on an electronic audio device.
- 9. (currently amended) Computer program product comprising program code, downloadable from a server for carrying out the method of <u>claim 1</u> anyone of claims 1 to 7, when said program product is run on an electronic audio device.
- 10. (currently amended) Computer data signal embodied in a carrier wave and representing a program that instructs a computer to perform the steps of the method of claim 1-anyone of claims 1 to 7.

- 11. (currently amended) Dynamic range controller with an adaptive threshold comprising:
  - [[-]] an audio signal input,
  - [[-]] an audio signal output,
  - [[-]] means to continuously detect the power of the audio signal and
- [[-]] a power controller, <u>wherein</u> said dynamic range control<u>ler</u> comprises: being

## characterized by:

means to receive at least two thresholds comprising a maximum power level for short time interval operation and a maximum power level for long time operation of an electro acoustic transducer,

wherein said dynamic range controller is configured to short term control the power of the audio signal output wherein in a way that the power of the output is reduced to said maximum power level for short time operation, if the detected power of said audio signal input exceeds said maximum power level for short time interval operation, and

wherein said dynamic range controller is configured to long term control the power of the audio signal output wherein a way that the power of the output signal is reduced to said maximum power level for long time operation, if the detected power of said audio signal input is exceeding said maximum power level for long time operation for a predetermined time period, wherein said long term control overrides said short term control.

- 12. (currently amended) Dynamic range control according to claim 11, further comprising a soft switch to slowly control the power of the signal wherein a way that the power of the output signal substantially equals said maximum power level.
- 13. (currently amended) Dynamic range control according to claim 11-or 12, further comprising a timer element to operate said long term control in a timer controlled way.
- 14. (currently amended) Electronic audio device comprising an audio signal source and an audio output comprisingeharacterized by a dynamic range controller with an

adaptive threshold according to <u>claim 11</u> anyone of claims 11 to 13.

- 15. (currently amended) Electronic audio device according to claim 14, wherein characterized in that said audio source is a digital audio signal source and said audio output is an analog audio output.
- 16. (currently amended) Electronic audio device according to claim 14, or 15 wherein the means to receive at least two thresholds comprised in the dynamic range control with an adaptive threshold is implemented by an integrated circuit implemented in a connector of said electro acoustic transducer.